

Table S1. Sequences and relevant information used for phylogenetic analysis of the chitin synthase gene.

| Genes | GenBank No | Species |
|-----------------|-------------------|--------------------------------------|
| <i>DcCHS</i> | | <i>Diaphorina citri</i> |
| <i>ApCHS</i> | XP_003247517.1 | <i>Acyrtosiphon pisum</i> |
| <i>AgCHS1</i> | AFJ00066 | <i>Aphis Glycines</i> |
| <i>LsCHS1a</i> | AFC61179 | <i>Laodelphax striatellus</i> |
| <i>LsCHS1b</i> | AFC61178 | <i>Laodelphax striatellus</i> |
| <i>NICHS1a</i> | AFC61181 | <i>Nilaparvata lugens</i> |
| <i>NICHS1b</i> | AFC61180 | <i>Nilaparvata lugens</i> |
| <i>BmCHS</i> | AFB83705 | <i>Bombyx mori</i> |
| <i>CfCHS</i> | ACD84882 | <i>Choristoneura fumiferana</i> |
| <i>CmCHS1</i> | AJG44538 | <i>Cnaphalocrocis medinalis</i> |
| <i>CmCHS2</i> | AJG44539 | <i>Cnaphalocrocis medinalis</i> |
| <i>TCiCHS</i> | KR611528 | <i>Toxoptera citricida</i> |
| <i>AaCHS1</i> | XP_001662200.1 | <i>Aedes aegypti</i> |
| <i>CqCHS1</i> | XP_001866798 | <i>Culex quinquefasciatus</i> |
| <i>DmCHS1</i> | NP_524233 | <i>Drosophila melanogaster</i> |
| <i>EoCHS1a</i> | ACA50089 | <i>Ectropis obliqua</i> |
| <i>EoCHS1b</i> | ACD10553 | <i>Ectropis obliqua</i> |
| <i>HaCHS1</i> | AKZ08594 | <i>Helicoverpa armigera</i> |
| <i>HaCHS2</i> | AKZ08595 | <i>Helicoverpa armigera</i> |
| <i>MbCHS1</i> | ABX56676 | <i>Mamestra brassicae</i> |
| <i>McCHS1</i> | AJF93428 | <i>Mamestra configurata</i> |
| <i>AmCHS1</i> | XP_395677.4 | <i>Apis mellifera</i> |
| <i>AmCHS2</i> | XP_001121152.2 | <i>Apis mellifera</i> |
| <i>PoCHS1</i> | AOE23678 | <i>Phthorimaea operculella</i> |
| <i>PoCHS2</i> | AIJ50381 | <i>Phthorimaea operculella</i> |
| <i>AgaCHS1a</i> | XP_321336.5 | <i>Anopheles gambiae</i> |
| <i>AgaCHS1b</i> | XP_321336.4 | <i>Anopheles gambiae</i> |
| <i>AgaCHS2</i> | XP_321951 | <i>Anopheles gambiae</i> |
| <i>AqCHS1</i> | ABD74441 | <i>Anopheles quadrimaculatus</i> |
| <i>LcCHS1</i> | AAG09712 | <i>Lucilia cuprina</i> |
| <i>LmCHS1a</i> | ACY38588 | <i>Locusta migratoria manilensis</i> |
| <i>LmCHS1b</i> | ACY38589 | <i>Locusta migratoria manilensis</i> |
| <i>MsCHS1</i> | AAL38051 | <i>Manduca sexta</i> |
| <i>PxCHS1</i> | BAF47974.1 | <i>Plutella xylostella</i> |
| <i>SeCHS1</i> | AAZ03545 | <i>Spodoptera exigua</i> |
| <i>SeCHS2</i> | ABI96087 | <i>Spodoptera exigua</i> |
| <i>TcCHS1a</i> | AAQ55059 | <i>Tribolium castaneum</i> |
| <i>TcCHS1b</i> | AAQ55060 | <i>Tribolium castaneum</i> |
| <i>AaCHS2</i> | XP_001651163 | <i>Aedes aegypti</i> |
| <i>CqCHS2</i> | XP_001864594 | <i>Culex quinquefasciatus</i> |
| <i>DmCHS2</i> | NP_524209 | <i>Drosophila melanogaster</i> |

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|----------------|----------|------------------------------|
| <i>MsCHS2</i> | AAX20091 | <i>Manduca sexta</i> |
| <i>OfCHS1</i> | ACB13821 | <i>Ostrinia furnacalis</i> |
| <i>OfCHS2</i> | ABB97082 | <i>Ostrinia furnacalis</i> |
| <i>SfrCHS2</i> | AAS12599 | <i>Spodoptera frugiperda</i> |
| <i>TcCHS2</i> | AAQ55061 | <i>Tribolium castaneum</i> |
| <i>AtCHS</i> | AFM38193 | <i>Anasa tristis</i> |
| <i>BdCHS1a</i> | AEN03040 | <i>Bactrocera dorsalis</i> |
| <i>BdCHS1b</i> | AGB51153 | <i>Bactrocera dorsalis</i> |
| <i>BdCHS2</i> | AGC38392 | <i>Bactrocera dorsalis</i> |
